

# UTAH STATE FAIR PARK WATER LINE REPLACEMENT

155 NORTH 1000 WEST  
SALT LAKE CITY, UTAH

STATE OF UTAH  
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT  
2006

State of Utah  
Department of Administrative Services  
Division of Facilities  
Construction & Management  
4110 State Office Building  
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UTAH STATE FAIR PARK  
WATER LINE REPLACEMENT  
DFCM  
PROJECT No. 06070370  
COVER SHEET

MARK	DATE	DESCRIPTION	ISSUE

PRINCIPAL  
BYRON COLTON  
PROJECT MANAGER  
DOUG CROMAR  
DESIGNED BY  
KATIE WATKINS  
DRAWN BY  
ADAM HISLOP  
SCALE  
NONE  
DATE ISSUED  
10/09/06

DFCM PROJECT No.  
06070370  
CAD DWG FILE  
06105c State Fair Park(dwg)G-01  
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G-01  
06105C  
PROJECT NUMBER  
SHEET  
1  
OF  
9

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## PLAN SET

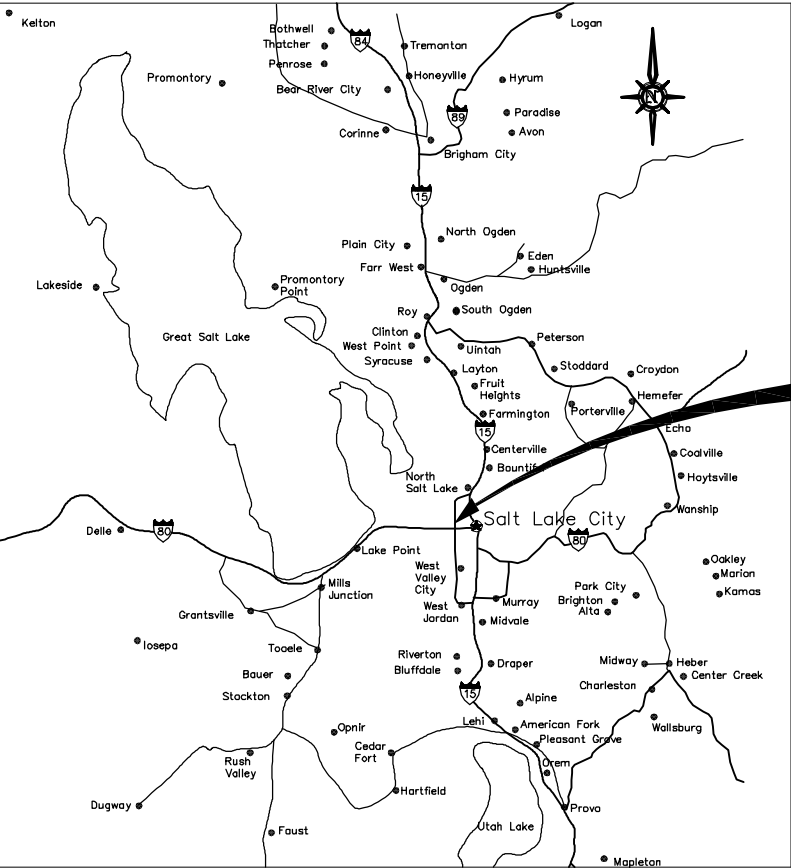
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## GENERAL NOTES:

- 1) ANY KNOWN SEWER MAINS, WATER MAINS, GAS MAINS, STORM DRAINS, IRRIGATION LINES, TELEPHONE CONDUITS, ELECTRICAL CABLES, AND OTHER UNDERGROUND STRUCTURES ARE SHOWN ON THESE DRAWINGS ON TO THE EXTENT SUCH INFORMATION HAS BEEN MADE AVAILABLE TO OR DISCOVERED BY THE ENGINEER. IT IS EXPECTED THAT THERE MAY BE DISCREPANCIES AND OMISSIONS IN THE LOCATION AND QUANTITIES OF UTILITIES AND STRUCTURES SHOWN. THIS INFORMATION IS SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR BUT IS NOT GUARANTEED TO BE EITHER CORRECT OR COMPLETE, AND ALL RESPONSIBILITY FOR THE ACCURACY AND COMPLETENESS THEREOF IS EXPRESSLY DISCLAIMED. THE CONTRACTOR SHALL MAKE SUCH INVESTIGATION AS HE THINKS NECESSARY TO VERIFY ITS CORRECTNESS AND COMPLETENESS. THE CONTRACTOR SHALL, PRIOR TO EXCAVATION, LOCATE UNDERGROUND UTILITIES AND STRUCTURES, SO THAT THEY WILL NOT BE ACCIDENTALLY CUT OR DAMAGED BY THE CONSTRUCTION OPERATION, AND SO THAT THE GRADE OF THE PIPE CAN BE ADJUSTED AS REQUIRED.
- 2) CONTRACTOR SHALL CONTACT BLUE STAKE LOCATION CENTER AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION IS COMMENCED.
- 3) SEWER, GAS, WATER, AND OTHER SERVICES TO INDIVIDUAL STRUCTURES, THOUGH NOT SHOWN FOR CLARITY, DO EXIST AND SHALL BE AVOIDED AT NO ADDITIONAL COST TO THE OWNER.
- 4) OTHER UTILITY SERVICES SHALL BE RELOCATED AS NECESSARY AT NO COST TO THE OWNER.
- 5) THE SUCCESSFUL PERFORMANCE OF FIELD DENSITY TESTS SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO MEET THE SPECIFIED DENSITY REQUIREMENTS FOR THE COMPLETE PROJECT. THE CONTRACTOR SHALL MAKE SUCH ADDITIONAL TESTS, AT HIS EXPENSE, AS MAY BE REQUIRED TO INSURE THAT THE WORK OF COMPACTION IS PERFORMED PROPERLY.
- 6) ACCESS TO THE CONSTRUCTION SITE SHALL BE FROM PUBLIC ROADS. ANY ACCESS ACROSS PRIVATE PROPERTY SHALL BE ARRANGED BY THE CONTRACTOR AND APPROVED BY THE OWNER.

## LEGEND

	EXISTING HYDRANT
	PROPOSED HYDRANT
	PROPOSED CORPORATION STOP
	PROPOSED DOUBLE CHECK VALVE BACKFLOW PREVENTER
	PROPOSED BEND, TEE, AND CROSS W/THRUST BLOCKING
	EXISTING LIGHT POST
	PROPOSED WATER METER
	PROPOSED CAP W/THRUST BLOCKING
	YARD HYDRANT (SPIGOT)
	PROPOSED BLOW-OFF VALVE
	EXISTING WATER LINE TO BE REMOVED AND DISPOSED OF
	PROPOSED WATER LINE W/GATE VALVE
	EXISTING WATER LINE W/GATE VALVE
	EXISTING GAS LINE
	EXISTING SEWER LINE W/MANHOLE
	EXISTING STORM DRAIN LINE W/CATCH BASIN
	EXISTING POWER LINE (BURIED)
	KEYNOTE (TYPICAL)
	ASPHALT DEMOLITION AND RESTORATION
	EXISTING FENCE
	EXISTING CONCRETE BORDER



SALT LAKE AND UTAH COUNTY  
VICINITY MAP

SITE LOCATION



State of Utah-Department of Administrative Services

DIVISION OF FACILITIES CONSTRUCTION  
AND MANAGEMENT

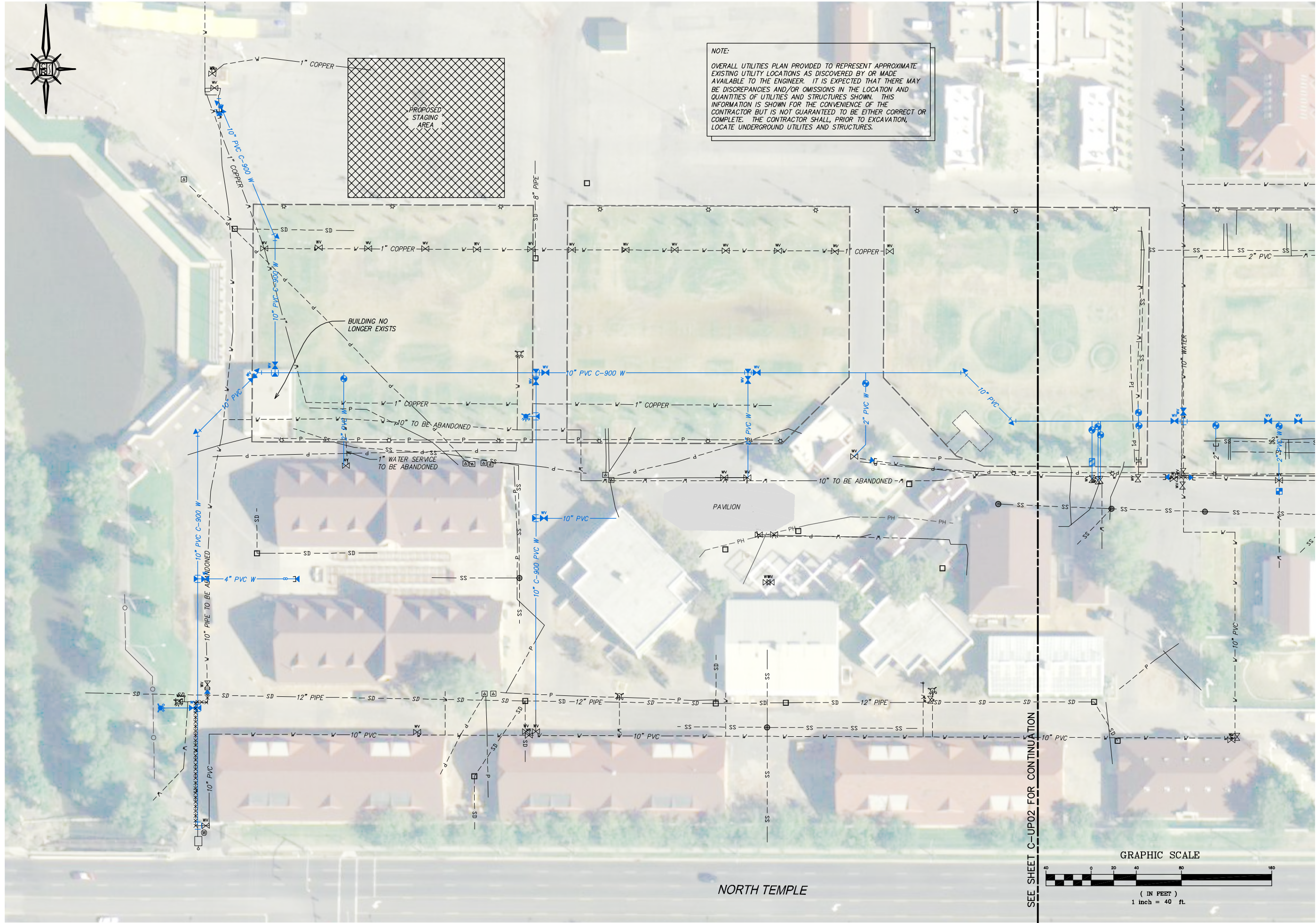
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NOTE:  
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OVERALL UTILITIES PLAN

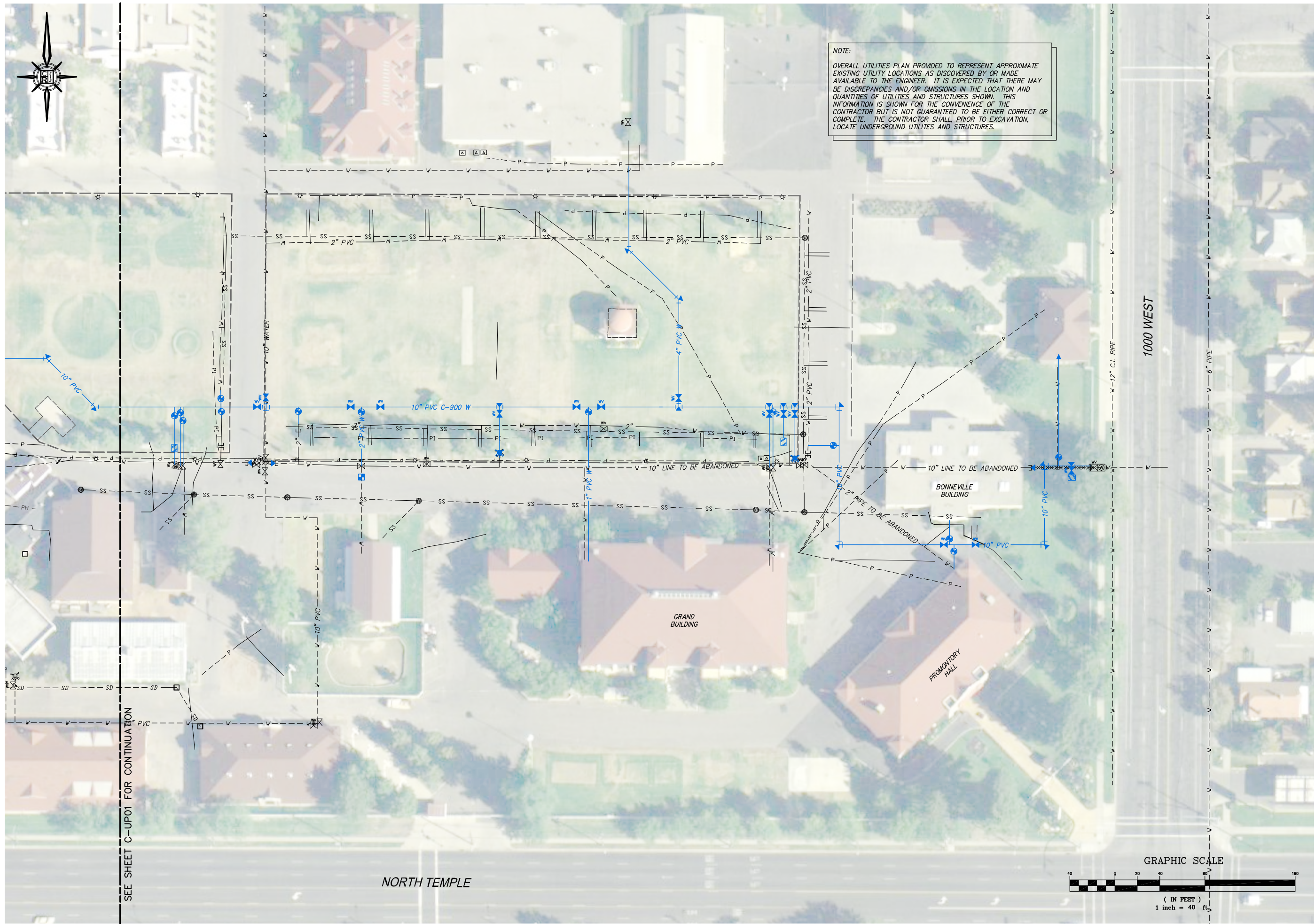
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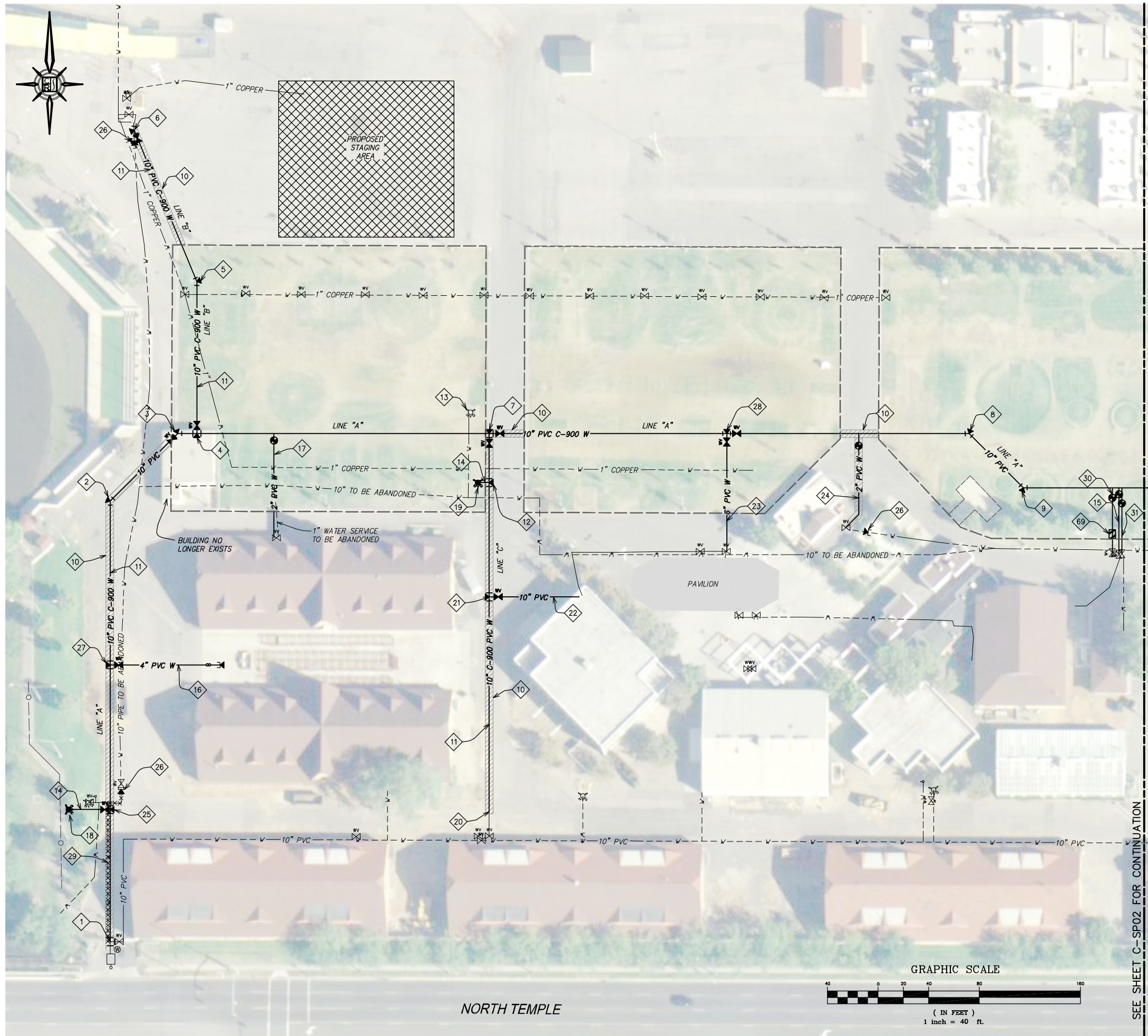
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KEY NOTES

- 1 STA. 0+00.00 LINE "A"  
BEGIN NEW 10" PVC C-900 DR-14 WATERLINE. CONNECT TO EXISTING VALVE NORTH OF METER BOX. INSTALL 10" TEE SUITABLE FOR CONNECTION TO EXISTING 10" GATE VALVE. POTHOLE TO DETERMINE TEE REQUIREMENTS.
- 2 STA. 3+48.10 LINE "A"  
INSTALL NEW 10" 45° BEND (MJ). INSTALL THRUST BLOCKING PER DETAIL B ON SHEET C-DT02.
- 3 STA. 4+23.61 LINE "A"  
INSTALL NEW 10" 45° BEND (FLxMJ) AND 10" GATE VALVE (FLxMJ). INSTALL THRUST BLOCKING PER DETAIL B ON SHEET C-DT02.
- 4 STA. 4+38.61 LINE "A" = STA. 0+00 LINE "B"  
INSTALL NEW 10" TEE (MJxMJxFL). INSTALL THRUST BLOCKING PER DETAIL B ON SHEET C-DT02. INSTALL 10" GATE VALVE (FLxMJ) AND VALVE BOX ON NORTH BRANCH.
- 5 STA. 1+20.02 LINE "B"  
INSTALL NEW 10" 22.5° BEND (MJ) WITH THRUST BLOCKING PER DETAIL B ON SHEET C-DT02.
- 6 STA. 2+49.72 LINE "B"  
CONNECT TO EXISTING 10" WATERLINE WITH 10" (MJ) LONG SLEEVE. FIELD VERIFY ALL REQUIRED FITTINGS FOR CONNECTION. INSTALL NEW 10" GATE VALVE (FLxMJ) AND 10" 22.5° BEND (FLxMJ). FIELD VERIFY ALL FITTINGS REQUIRED. INSTALL THRUST BLOCKS PER DETAIL B ON SHEET C-DT02.
- 7 STA. 6+69.75 LINE "A" = STA. 0+00 LINE "C"  
INSTALL NEW 10" TEE (FLxFLxFL). INSTALL THRUST BLOCKING PER DETAIL B ON SHEET C-DT02. INSTALL 10" GATE VALVES (FLxMJ) ON SOUTH AND EAST BRANCHES. INSTALL FLxMJ ADAPTER ON WEST BRANCH.
- 8 STA. 10+49.04 LINE "A"  
INSTALL NEW 10" 45° BEND (MJ). INSTALL THRUST BLOCKING PER DETAIL B ON SHEET C-DT02.
- 9 STA. 11+09.75 LINE "A"  
INSTALL NEW 10" 45° BEND (MJ). INSTALL THRUST BLOCKING PER DETAIL B ON SHEET C-DT02.
- 10 ASPHALT CUT AND RESTORATION. SEE DETAIL A ON SHEET C-DT02. REPLACE 6" CONCRETE BORDER WHERE NECESSARY.
- 11 INSTALL NEW 10" PVC C-900 DR-14 WATER LINE WITH TRACER WIRE (CONTRACTOR SHALL MAINTAIN 4'-0" OF COVER ABOVE NEW WATER LINE). LOOP OR LOWER WATER LINE AS REQUIRED DUE TO SEWER AND/OR STORM DRAIN LINES. SEE TYPICAL WATER LINE TRENCH DETAIL A ON SHEET C-DT02.
- 12 STA. 0+38.73 LINE "C"  
INSTALL NEW 10x10x6 TEE (MJxMJxFL) AND NEW 6" GATE VALVE (FLxMJ). SEE DETAIL A ON SHEET C-DT01.
- 13 REMOVE AND DISPOSE OF EXISTING HYDRANT AND BOLLARD POSTS.
- 14 INSTALL NEW 6" PVC C-900 DR-14 WATER LINE TO HYDRANT (CONTRACTOR SHALL MAINTAIN 4'-0" OF COVER ABOVE NEW WATER LINE). LOOP OR LOWER WATER LINE AS REQUIRED DUE TO SEWER AND/OR STORM DRAIN LINES. SEE TYPICAL WATER LINE TRENCH DETAIL A ON SHEET C-DT02.
- 15 INSTALL NEW 2" CTS POLY WATER SERVICE LINE AND TRACER WIRE. CONNECT TO EXISTING VALVE AS SHOWN.
- 16 INSTALL NEW 4" C-900 DR-14 PVC WATER SERVICE LINE AND TRACER WIRE TO LIVESTOCK ENCLOSURE AREA. FIELD VERIFY LOCATION OF LATERAL WITH UTAH STATE FAIRPARK PERSONNEL. INSTALL BLOW-OFF VALVE WITH VALVE BOXES PER DETAIL A ON SHEET C-DT03. CAP & THRUST BLOCK END OF LATERAL.
- 17 DISCONNECT 1" SERVICE LINE. INSTALL NEW 2" CTS POLY SERVICE LINE. CONNECT NEW 2" SERVICE LINE TO EXISTING VALVE BOX. INSTALL ALL FITTINGS, TRACER WIRE, AND SHUTOFF VALVE AS REQUIRED. SEE DETAIL C ON SHEET C-DT01.
- 18 INSTALL NEW FIRE HYDRANT WITH (2) BOLLARD POSTS. SEE DETAILS A & B ON SHEET C-DT01. MATCH GRADE TO ELEVATION OF NEW DRIVE & BERM RECONSTRUCTION BY OTHERS. REMOVE AND DISPOSE OF EXISTING FIRE HYDRANT, YARD HYDRANT, AND BOLLARD POSTS.
- 19 INSTALL NEW FIRE HYDRANT WITH (4) BOLLARD POSTS. SEE DETAILS A & B ON SHEET C-DT01.
- 20 CONNECT NEW 10" PVC WATER LINE TO EXISTING 10" STUB WITH 10" (MJ) LONG SLEEVE. FIELD VERIFY CONNECTION.
- 21 STA. 1+29.03 LINE "C"  
INSTALL 10" TEE (MJxMJxFL). INSTALL THRUST BLOCKING PER DETAIL B ON SHEET C-DT02. INSTALL 10" GATE VALVE (FLxMJ) ON EAST BRANCH.
- 22 INSTALL NEW 10" C-900 DR-14 PVC WATER SERVICE LINE AND TRACER WIRE. CONNECT TO EXISTING 10" BUILDING CONNECTION OUTSIDE OF BUILDING WITH 10" (MJ) LONG SLEEVE (FIELD VERIFY). SEE TYPICAL WATER LINE TRENCH DETAIL A ON SHEET C-DT02.
- 23 INSTALL NEW 6" PVC C-900 DR-14 WATER SERVICE LINE AND TRACER WIRE. CONNECT TO EXISTING VALVE AS SHOWN (FIELD VERIFY CONNECTION). SEE TYPICAL WATER LINE TRENCH DETAIL A ON SHEET C-DT02.
- 24 INSTALL NEW 2" CTS POLY WATER SERVICE LINE. INSTALL ALL FITTINGS, TRACER WIRE, AND SHUT-OFF VALVE AS REQUIRED. SEE DETAIL C ON SHEET C-DT01. CONNECT TO EXISTING VALVE AS SHOWN. CONTRACTOR TO POTHOLE AND DETERMINE REQUIRED CONNECTION FITTINGS.
- 25 STA. 1+04.36 LINE "A"  
INSTALL NEW 10x10x6 TEE (MJxMJxFL) AND NEW 6" GATE VALVE (FLxMJ). SEE DETAIL A ON SHEET C-DT01.
- 26 CUT & CAP EXISTING 10" WATERLINE WITH 10" (MJ) CAP & THRUST BLOCK PER DETAIL B ON SHEET C-DT02.
- 27 STA. 2+18.67 LINE "A"  
INSTALL NEW 10x10x4 TEE (MJxMJxFL) AND NEW 4" GATE VALVE (FLxMJ).

(KEYNOTES CONTINUED ON SHEET C-SP02)

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WATERLINE PLAN

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PROJECT MANAGER DOUG CROMAR
DESIGNED BY KATIE JONES
DRAWN BY ADAM HISLOP
SCALE 1" = 40'
DATE ISSUED 10/09/06

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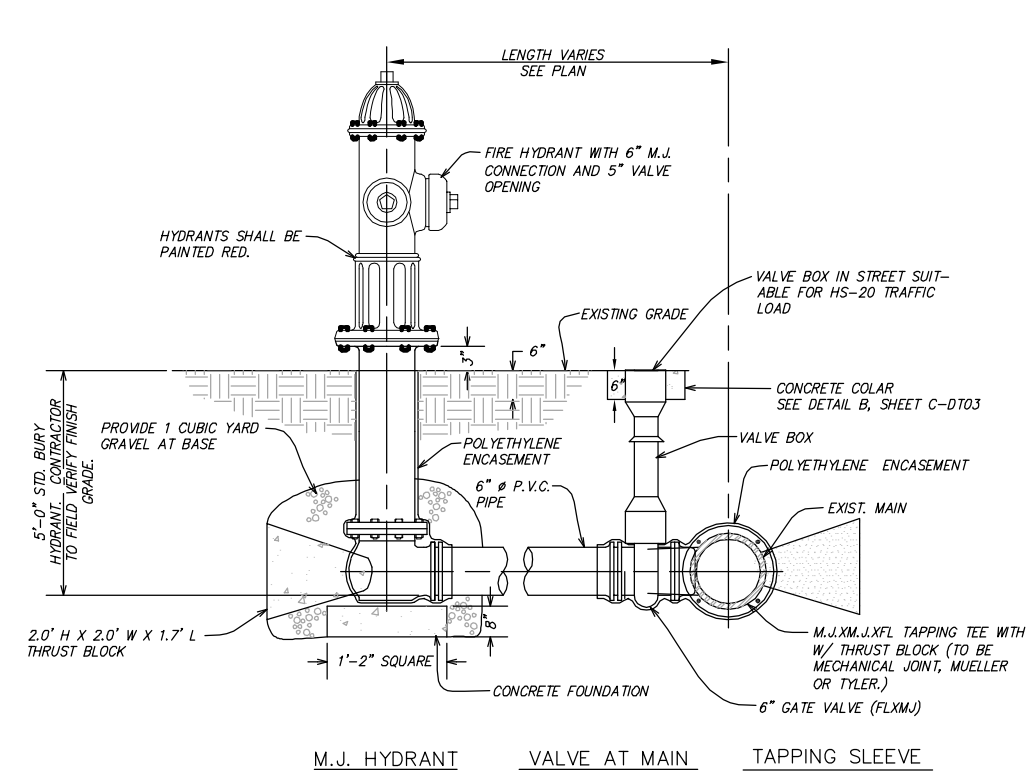
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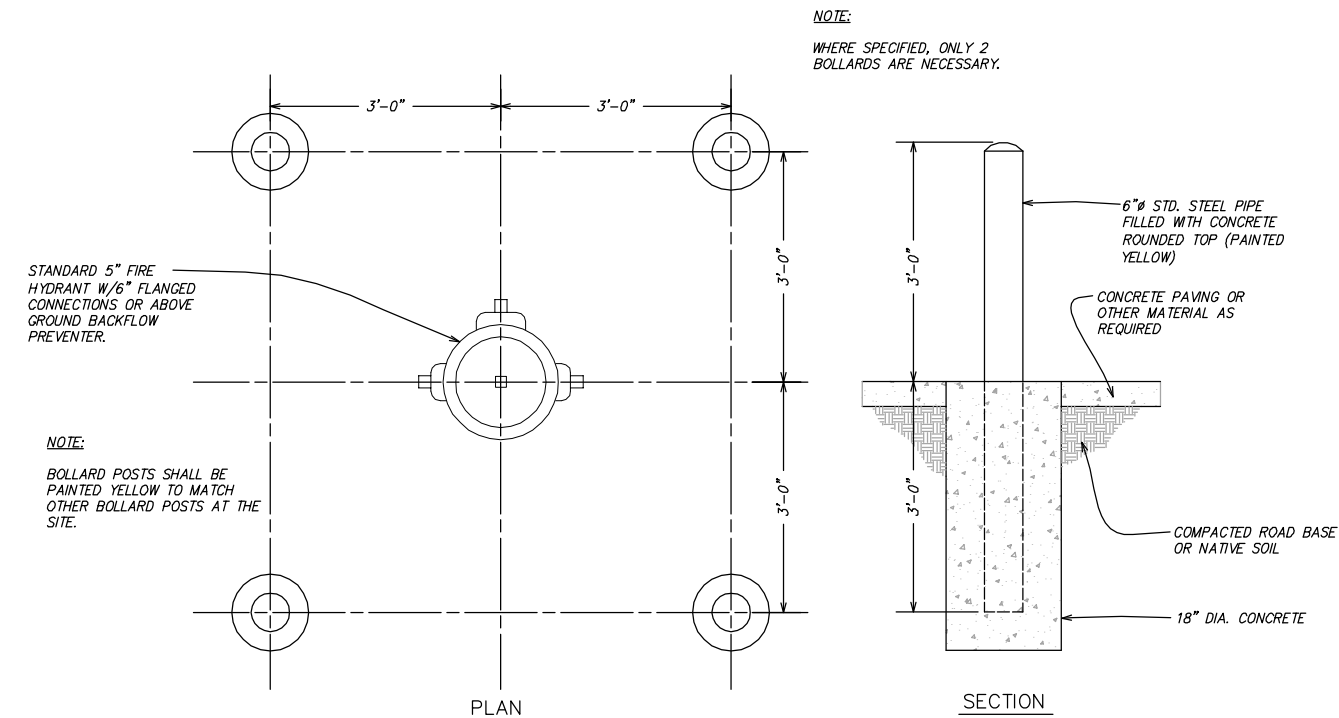
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C-DT01	SHEET 7 OF 9
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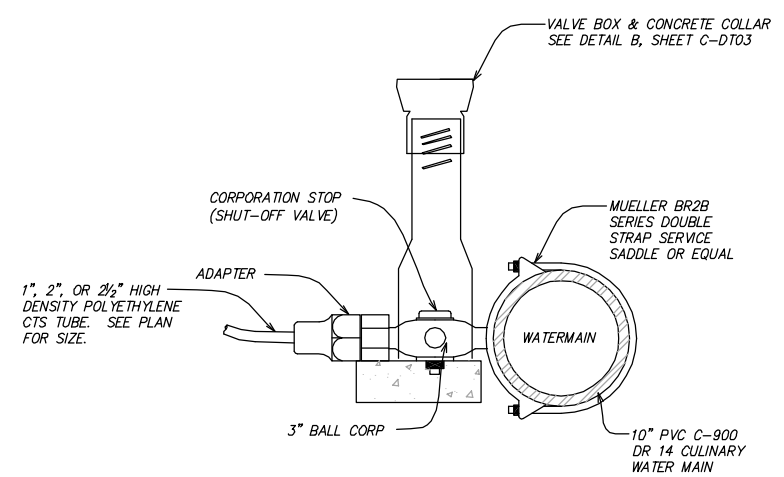
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**A** FIRE HYDRANT CONNECTION DETAIL  
SCALE: NONE

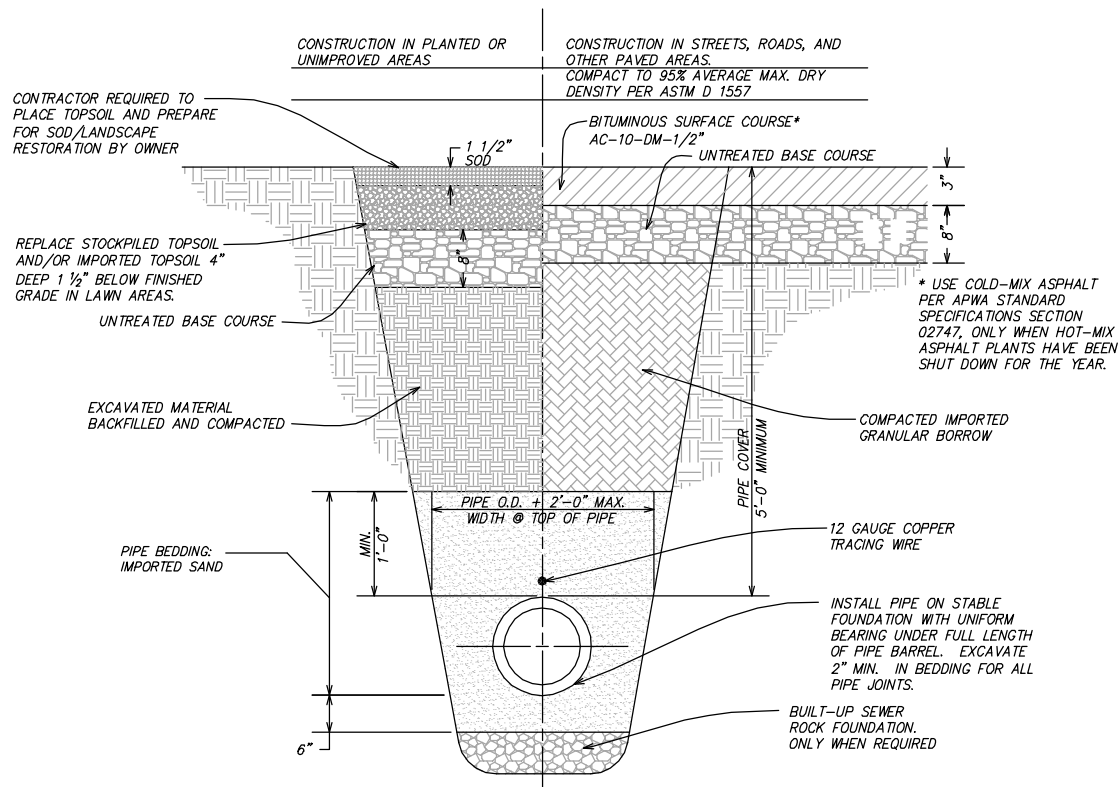


**B** BOLLARD POSTS DETAIL  
SCALE: NONE

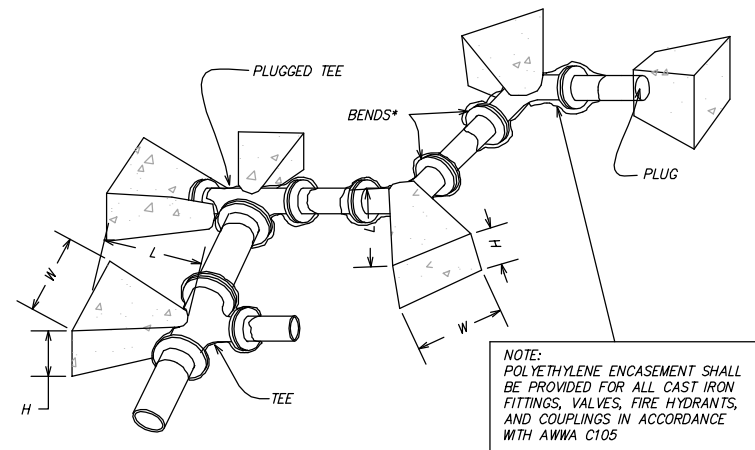


**C** WATER SERVICE CONNECTION  
SCALE: NONE

1. PLACE TAPS A MINIMUM OF 24 INCHES APART. USE A TAPPING TOOL THAT IS SIZED CORRESPONDING TO THE SIZE OF THE SERVICE TO BE INSTALLED. NO TAPS WITHIN 24 INCHES OF END OF PIPE.
2. TEFLON TAPE IS REQUIRED ON ALL TAPS
3. CLAY BRICK OR CONCRETE BLOCK REQUIRED UNDER VALVE BOX TO ASSURE A 1" SPACE BEFORE BEARING ON A CORPORATION STOP
4. SADDLE CLAMP REQUIRED ON ALL TAPS.
5. PRIOR TO BACKFILLING AROUND TAPS, SECURE INSPECTION OF INSTALLATION BY ENGINEER.
6. PROVIDE AND PLACE PER APWA SECTION 02321. COMPACT PER APWA SECTION 02324 TO A MODIFIED PROCTOR DENSITY OF 95 PERCENT OR GREATER. MAXIMUM LIFT THICKNESS IS 8 INCHES BEFORE COMPACTION.
7. PROVIDE 12 GAGE TRACING WIRE ON ALL SERVICE LATERALS.
8. POLYETHYLENE WATER LATERAL MUST MEET ASTM D 2737 & AWWA C-901. IT SHALL BE PE 3408 AND SDR-9 WITH A 200 PSI PRESSURE RATING.
9. SERVICE FITTINGS SHALL BE BRASS WITH MUELLER CONNECTIONS OR EQUIVALENT.

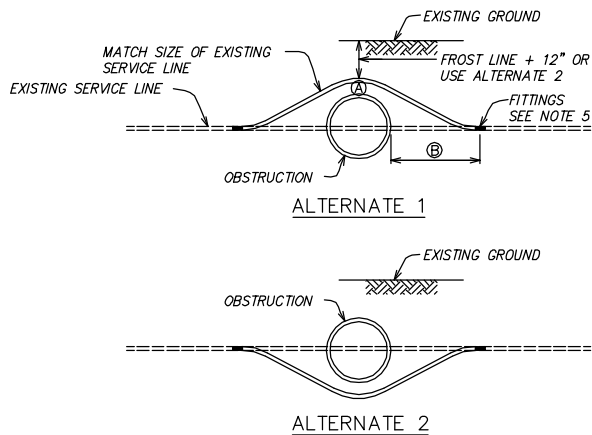
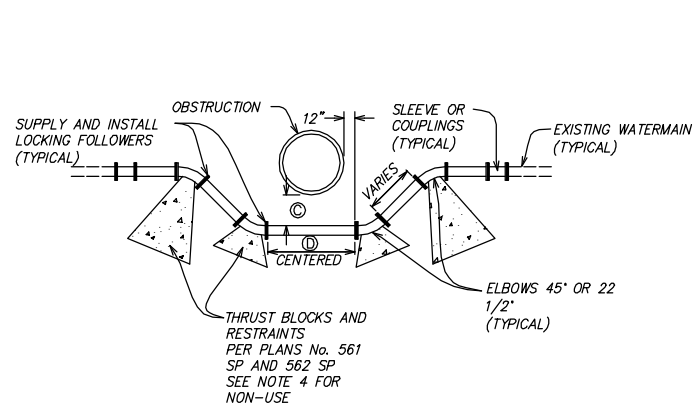


**A** TYPICAL WATER TRENCH SECTION  
SCALE: NONE



THRUST BLOCK SCHEDULE			
SOIL BEARING PRESSURE = 1,500 PSF TEST PRESSURE = 200 PSI			
FITTING	WIDTH	HEIGHT	LENGTH
10" TEE & DEAD END VALVE	4.5'	4.5'	3.75'
10" 45° BEND	2.75'	2.75'	2.5'
10" 22.5° BEND	2.0'	2.0'	1.75'
10" 90° BEND	3.75'	3.75'	3.25'
6" TEE & DEAD END VALVE	2.75'	2.75'	2.5'
6" 45° BEND	1.75'	1.75'	1.5'
6" 22.5° BEND	1.25'	1.25'	1.0'
6" 90° BEND	2.5'	2.5'	2.0'
6" TEE & DEAD END VALVE	2.0'	2.0'	1.75'
6" 45° BEND	1.25'	1.25'	1.0'
6" 22.5° BEND	1.0'	1.0'	0.75'
6" 90° BEND	1.75'	1.75'	1.5'

**B** THRUST BLOCKING  
SCALE: NONE



**C** WATER LINE VERTICAL REALIGNMENT DETAIL  
SCALE: NONE

**TYPE B — WATER MAIN**

TABLE OF DIMENSIONS		
No.	SEWER MAIN	OTHER
(A)	18"	2"
(B)	10'-0"	6"
(C)	18"	12" MIN.
(D)	FULL PIPE LENGTH	O.D. + 12"

**WATER LINE VERTICAL REALIGNMENT NOTES:**

- INSPECTION: PRIOR TO BACKFILLING TRENCH EXCAVATION, SECURE INSPECTION OF INSTALLATION BY ENGINEER.
- BACKFILL: PROVIDE AND PLACE PER APWA SECTION 02321. COMPACT PER APWA SECTION 02324 TO A MODIFIED PROCTOR DENSITY OF 95-PERCENT OR GREATER. MAXIMUM LIFT THICKNESS IS 8-INCHES BEFORE COMPACTION.
- PIPE: MATCH EXISTING SERVICE. BEND PIPE AROUND OBSTRUCTION.
- THRUST BLOCKS: NOT REQUIRED FOR FLANGE OR WELDED PIPE SYSTEMS.
- FITTINGS: USE COPPER TO COPPER FLARE FITTINGS OR COPPER TO IRON PACK JOINT COUPLING WITH LOCKING SPLIT CLAMP ON IRON PIPE SIDE AND FLARE ON COPPER SIDE. ALL COUPLINGS TO BE BRASS.
- GREASE: APPLY POLY-FM GREASE TO ALL BURIED METAL SURFACES. WRAP WITH 8-MILLIMETER THICK POLYETHYLENE SHEET AND TAPE WRAP.
- STEEL SPOOL: WELD IN PLACE AND PROVIDE SLIP ON FLANGE EXCEPT WHEN FITTING IN PIPE SYSTEM COULD MOVE. EPOXY LINE PER AWWA C210, C213, AND COATED PER AWWA C208, OR C214.
- LOCATION: LOOP WATER MAINS OVER TOP OF SEWER LINES.

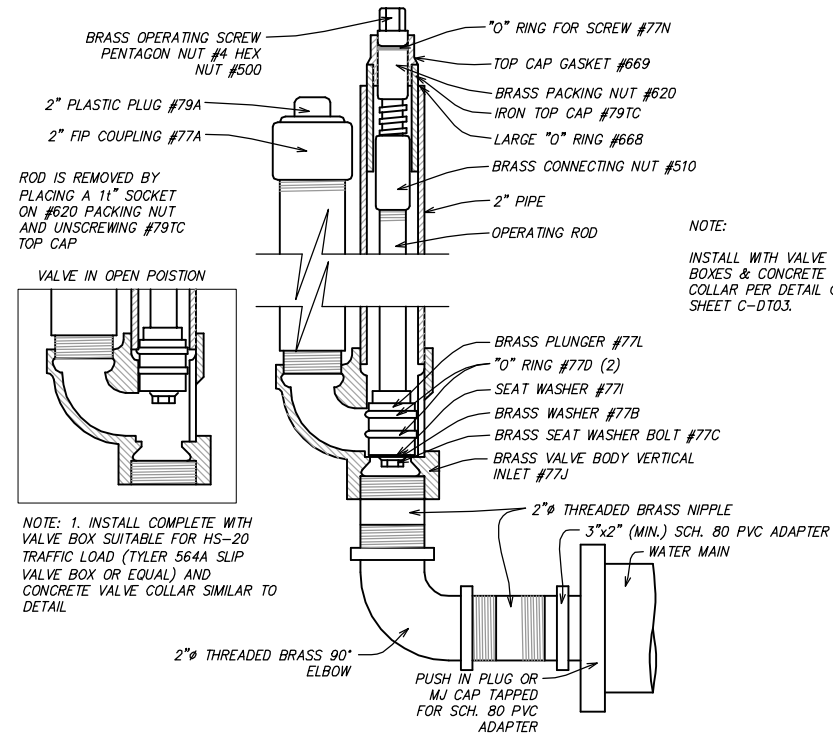
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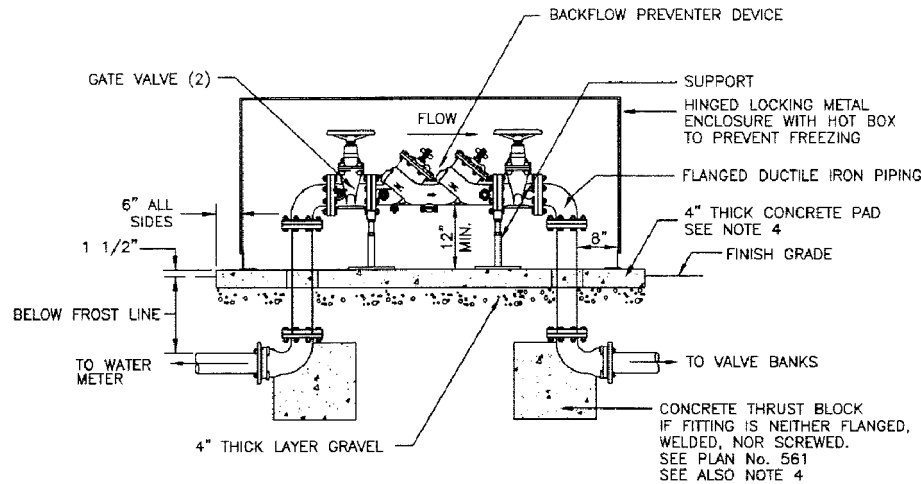
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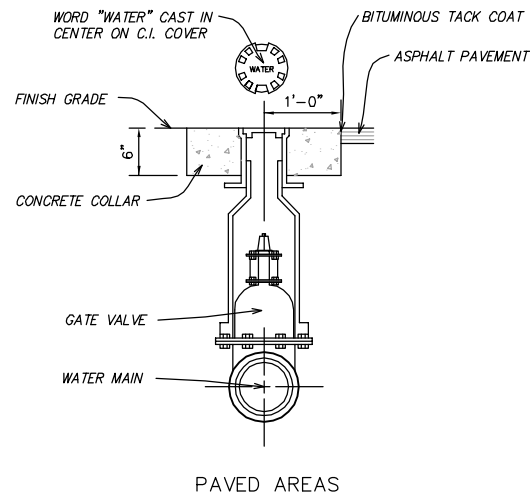




**A** BLOW-OFF HYDRANT  
SCALE: NONE

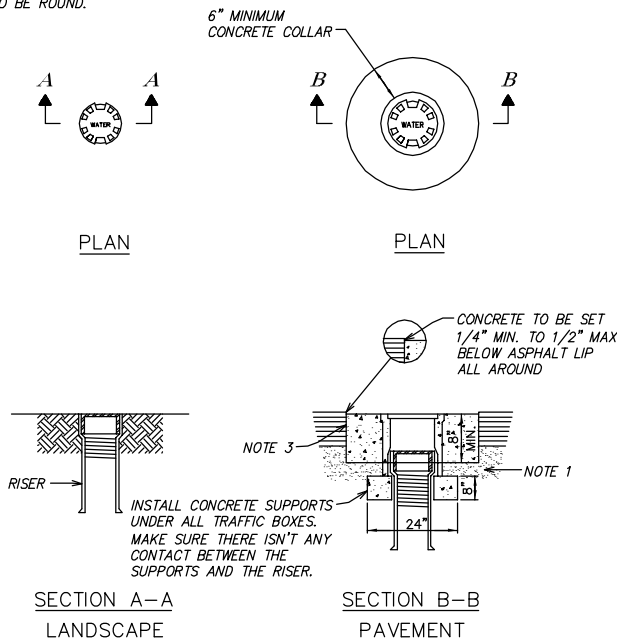


**B** ABOVE GROUND BACKFLOW PREVENTER  
SCALE: NONE



NOTES:

1. CAST IRON WATER COVERS  
ARE TO BE ROUND.



COVER COLLAR FOR VALVE BOX NOTES:

1. UNTREATED BASE COURSE: PROVIDE MATERIAL SPECIFIED  
IN APWA SECTION 02060. DO NOT USE GRAVEL OR SEWER  
BLOCK. PLACE PER APWA SECTION 02322. COMPACT PER  
APWA SECTION 02324 TO A MODIFIED PROCTOR DENSITY OF  
95-PERCENT OR GREATER. MAXIMUM LIFT THICKNESS IS  
8-INCHES BEFORE COMPACTION.

2. CONCRETE: CLASS 4000 PER APWA SECTION 03304.  
PLACE PER APWA SECTION 03310. CURE PER APWA SECTION  
03390.

3. JOINTS: PROVIDE A NEAT STRAIGHT JOINT BETWEEN EXISTING  
AND NEW ASPHALT CONCRETE SURFACES. PROVIDE CONCENTRIC  
CIRCLE CUT. CLEAN EDGES OF ALL DIRT, OIL AND LOOSE  
DEBRIS.

**C** TYPICAL VALVE BOX & COVER COLLAR  
SCALE: NONE

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